

74 cont. (a) preparing an oil blend [comprising] consisting essentially of a microbial oil enriched in DHA and a microbial oil enriched in ARA, wherein the DHA and ARA are in the form of triglycerides and the oils are blended to provide a ratio of about 2 to 12 parts ARA and about 1 to 5 parts DHA [and the oil blend comprises from about 5 parts ARA and 1 part DHA to about 20 parts ARA and 10 parts DHA] and the oil blend further [comprises] provides an EPA:ARA ratio of about 1 part EPA to from about 5 to about 20 parts ARA, and

(b) adding said oil blend to said infant formula in sufficient amounts that the amounts of DHA, ARA and EPA in said formula are comparable to the amounts of DHA, ARA and EPA in human breast milk.

75 875. (Twice Amended) A process for supplementing infant formula with DHA and ARA which [comprises] consists essentially of blending a triglyceride oil enriched in DHA and a triglyceride oil enriched in ARA, wherein the oils are blended to provide an ARA:DHA:EPA ratio of [said blend comprises] from about 5 parts ARA and 1 part DHA to about 20 parts ARA and 10 parts DHA [and the oil blend further comprises] to about 1 part EPA, and adding said blend to infant formula in amounts sufficient to provide the infant formula with DHA, ARA and EPA in amounts comparable to the amounts of DHA, ARA and EPA in human breast milk.

76 976. (Twice Amended) A process for supplementing infant formula with DHA and ARA which <sup>consists essentially of</sup> comprises:

78 (a) obtaining a microbial oil enriched in DHA and blending it with a microbial oil enriched in ARA, wherein the DHA and ARA are in the form of triglycerides and the oils are blended to provide a ratio of about 2 to 12 parts ARA and about 1 to 5 parts DHA and the oil blend is free of EPA, and

(b) adding said oil blend to said infant formula in sufficient amounts that the amounts of DHA and ARA in said formula are comparable to the amounts of DHA and ARA in human breast milk.

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77. (Twice Amended) A composition [comprising] consisting essentially of a blend of a microbial oil enriched in DHA and a microbial oil enriched in ARA, wherein said DHA and ARA are in the form of triglycerides and the oils are blended to provide an ARA:DHA:EPA ratio of [said blend comprises] from about 5 parts ARA and 1 part DHA to about 20 parts ARA and 10 parts DHA [and the oil blend further comprises] to about 1 part EPA.

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80. (Twice Amended) A composition [comprising] consisting essentially of a blend of a microbial oil enriched in DHA and a microbial oil enriched in ARA, wherein the oils are blended to provide a ratio of about 2 to 12 parts ARA and about 1 to 5 parts DHA.

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82. (Amended) A composition in accordance with claim <sup>13</sup>80 [77], wherein the amount of EPA is about one twentieth or less the amount of ARA.

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83. (Twice Amended) A composition in accordance with claim <sup>13</sup>80 [77], wherein the oil enriched in ARA was produced by cultivating *Pythium insidiosum* or *Mortierella alpina* under conditions which will induce the production of an oil enriched in ARA.

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84. (Amended) A composition in accordance with claim <sup>13</sup>80 [77], wherein the oil enriched in DHA was produced by cultivating a DHA-producing species of *Cryptocodinium* under DHA-producing conditions.

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92. (Amended) Infant formula comprising a blend of a microbial oil enriched in DHA and a microbial oil enriched in ARA, wherein the DHA and ARA are in the form of triglycerides and the oils are blended to provide a ratio of about 2 to 12 parts ARA and about

1 to 5 parts DHA, the amount of DHA-containing oil and the amount of ARA-containing oil are sufficient to provide amounts of ARA and DHA comparable to the amounts of DHA and ARA in human breast milk and the formula further comprises EPA in a maximum amount of about one twentieth the amount of ARA.

*J<sup>8</sup> cont.* <sup>21</sup>/<sub>93</sub>. (Amended) Infant formula [comprising] consisting essentially of a blend of a microbial oil enriched in DHA and an oil enriched in GLA, wherein the amount of the DHA-containing oil is sufficient to provide an amount of DHA comparable to the amount in human breast milk and the amount of the GLA-containing oil is sufficient to provide GLA in an amount that, upon administration of the formula to an infant, can be converted in the infant's body to an amount of ARA comparable to the amount of ARA obtainable from human breast milk.

<sup>22</sup>/<sub>94</sub>. (Twice Amended) Infant formula comprising DHA and ARA, wherein the DHA and ARA are in the form of triglycerides, the <sup>triglycerides</sup> oils are blended to provide a ratio of about 2 to 12 parts ARA and about 1 to 5 parts DHA, and the amount of DHA-containing <sup>triglyceride</sup> oil and the amount of ARA-containing <sup>triglyceride</sup> oil are sufficient to provide [and are in] amounts comparable to the amounts of DHA and ARA in human breast milk, wherein said formula is free of EPA.

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#### REMARKS

The specification is amended at pages 5 and 7 to include material which was originally incorporated by reference to two pending U.S. applications (Ser. No. 07/479,135 and Ser. No. 07/645,457, now pending as continuation application Ser. No. 08/202,878), as set forth in the accompanying Declaration of David J. Kyle. This material teaches how to produce ARA-containing microbial oil and DHA-containing microbial oil which can be used in the